

DISTRICT 106 AND 108 DRIFT GILL NET MONITORING, 1989



By

Randy Timothy

Regional Information Report<sup>1</sup> No. 1J90-22

Alaska Department of Fish and Game  
Division of Commercial Fisheries  
Juneau, Alaska

September 1990

---

<sup>1</sup> The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished divisional reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Division of Commercial Fisheries.

#### **AUTHOR**

Randy Timothy is Assistant Area Management Biologist in the Wrangell Field Office for the Alaska Department of Fish and Game, Division of Commercial Fisheries, P.O. Box 200, Wrangell, AK 99929.

#### **ACKNOWLEDGEMENTS**

I would like to thank the ADF&G staff of the Commercial Fisheries Division in Petersburg and Wrangell who participated in this project. In particular, I thank Tom Rockne, who assisted in the interview process by running the skiff in all kinds of weather. I also thank Anita Ryll for her clerical assistance and William Bergmann for overseeing this project and its manuscript review.

#### **PROJECT SPONSORSHIP**

This project was financed with U.S./Canada Pacific Salmon Treaty funds, under Cooperative Agreement NA90AA-H-FM010.

## TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES . . . . .	iv
LIST OF APPENDICES . . . . .	v
ABSTRACT . . . . .	vi
INTRODUCTION . . . . .	1
METHODS . . . . .	1
RESULTS . . . . .	2
DISCUSSION . . . . .	2
APPENDICES . . . . .	14

## LIST OF TABLES

<u>Table</u>	<u>Page</u>
1. Gill net catch estimates reported to the Douglas regional office each week, 1989 . . . . .	3
2. Weekly target species projections for District 106, 1989 . . . . .	4
3. Weekly target species projections for District 108, 1989 . . . . .	5
4. Prince of Wales (District 106) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989 . . . . .	6
5. Stikine (District 108) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989 . . . . .	8
6. Clarence Strait (District 106-30) drift gill net fishery comparison of estimated catch reported to the Douglas regional office actual with actual catch, 1989 . . . . .	10
7. Sumner Strait (District 106-41) drift gill net fishery comparison of estimated catch reported to the Douglas regional office actual with actual catch, 1989 . . . . .	12

## LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
In-season vessel interviews . . . . .	15

# **ABSTRACT**

On-the-grounds vessel interviews were conducted in 1989 to assist in managing the District 106 and 108 drift gill net fisheries. Specific areas were sampled weekly, with 20 to 50% of the fleet sampled. Projections of catch, catch-per-unit-effort, and number of boats were made from these on-the-grounds interviews. Weekly catch projections were updated with early fish ticket returns to provide mid-week estimates of catch that were then provided to the Regional Office. These in-season estimates were used by management biologists to help determine fishing times and areas on a week to week basis. Comparisons of in-season catch estimates with final catch numbers proved favorable.

## INTRODUCTION

The Prince of Wales (District 106) and Stikine (District 108) drift gill net fisheries are interrelated due to their close proximity and to salmon migration patterns which result in major stocks being subjected to fisheries of both districts. The Alaska Department of Fish and Game (ADF&G) has conducted in-season catch sampling in these fisheries since the mid-1960's. The yearly and weekly sampling was sporadic until the early 1980's when increased emphasis was placed on obtaining weekly, in-season catch trends for managing the fisheries. Starting in 1985, unmanned vessels were used to assist with the sampling. Since that time, the weekly surveys have been conducted on a regular basis.

The weekly monitoring information is used by the Commercial Fisheries Division management staff to help assess the in-season run strengths of the various salmon stocks that are harvested in both districts. The management of these fisheries is based primarily on early season sockeye salmon, pink salmon in the middle, and coho salmon at the end of the season. On-the-grounds vessel interviews are conducted to determine catch-per-unit-of-effort (CPUE), catch trends, fleet dispersement, number of vessels fishing, weather conditions, and other factors that might influence the daily catches. The individual catch and areal dispersal information is kept confidential.

## METHODS

District 108, which is closer to Petersburg and Wrangell than District 106, was monitored by skiff from town. In District 106, a float house served as the base of operations. To assist with the monitoring, aerial surveys of the fishery were occasionally flown to record vessel names and number of vessels fishing in various sections of the districts.

To assure randomness of the vessels surveyed, a fisheries technician not familiar with the vessels would operate the skiff and decide what vessels to contact, while the management biologist would conduct the interview and record the catch data. Vessels running or working gear were generally not interviewed to avoid conflict with the fishermen's operations. Depending upon the number of vessels fishing an area, the percentage of the fleet surveyed would range from 20 to 50%. The area sampled each week would vary depending upon the area open and the target species. The number of daily interviews per week was dependent upon the duration of the weekly fishing period. The weekly gill net season opened at 12:01 p.m. on Sunday. During the first day of the fishery, individual vessel interviews were not conducted, but surveys were occasionally made to count the number of boats starting in certain areas. Vessel interviews were conducted throughout the daylight hours after the fishery had been opened at least 18 hours.

Catches of salmon were averaged and projected CPUEs and estimated total catches were computed from the data collected during the fisheries. These projections were compared to historical catch data to gauge the weekly catch performance of the fisheries. Fishing effort and time were also used in the comparison. These projections were then updated using the initial fish tickets received following the fisheries. The updated projections were used by fisheries management staff to establish future district openings.

## RESULTS

Vessel surveys were conducted during open fishing periods in District 106 from mid-June through early August, and in District 108 from mid-June through early July. In-season vessel interviews are summarized by week in the Appendix. Estimates of each week's catch based on on-the-grounds projections and early fish ticket returns (labeled mid-week estimate) were provided to the Regional Office on a weekly basis (Table 1).

On-the-grounds projections, mid-week estimates, and final determinations for CPUE, catch, and number of boats are compared for target species for the two districts in Tables 2 and 3. Generally, the three values compare favorably. The mid-week estimate of catch is compared with the actual catch for each species by week for the two districts in Tables 4 and 5. For District 106 these catches are further split by area and are presented for Clarence Strait and Sumner Strait in Tables 6 and 7, respectively.

## DISCUSSION

The Prince of Wales and Stikine drift gill net fisheries monitoring program has proven beneficial, not only for providing in-season catch estimation, but for helping to determine the following week's fishing times and areas. Both fisheries are managed on CPUE and total catch information. By monitoring the fishery on the grounds, not only can the catch information be obtained, but fishing trends, fleet movement within the week, the percent by which the daily catches are decreasing or increasing within each week, and a better knowledge of the fishery can be obtained by the management biologist.

Having the management biologist on the fishery also benefits the fleet in that additional fishing time can be granted if warranted. Conflicts in the past occurred as fishermen overestimated catches to ensure an extension. Questionable catches are now recorded and compared later with the fish tickets to verify catch estimates. In addition to the benefits of better management that the current program provides, the department's public relations with the fishermen have improved by providing a presence on the fishing grounds and discussing the management policies of the department with the fishermen.

Table 1. Gill net catch estimates reported to the Douglas regional office each week, 1989.

Date	Area	Chinook	Sockeye	Coho	Pink	Chum	# Boats
6/22/89	6	280	6800	485	785	950	85
Week 25	8	135	360	4	1	50	14
6/29/89	6	500	7000	1000	2400	2200	80
Week 26	8	10	28	4	0	44	4
7/06/89	6	55	9300	1700	12700	3200	80
Week 27	8	0	0	0	0	0	0
7/13/89	6	60	26500	2400	52000	9200	85
Week 28	8	5	1800	25	1200	1000	6
7/20/89	6	130	35500	4600	107000	6000	100
Week 29	8	15	2400	35	2800	1200	7
7/27/89	6	200	28500	5900	179500	8100	115
Week 30	8	50	900	30	3000	4430	6
8/03/89	6	180	24070	4600	144000	4900	115
Week 31	8	0	0	0	0	0	0
8/10/89	6	50	8500	6100	108000	4400	85
Week 32	8	0	0	0	0	0	0
8/17/89	6	40	6200	8500	132000	3000	80
Week 33	8	0	0	0	0	0	0
8/25/89	6	150	2850	13350	107112	4584	125
Week 34	8	4	23	861	203	138	5
8/31/89	6	170	900	12800	47000	4200	100
Week 35	8	59	5	2095	30	115	16
9/07/89	6	9	141	6899	5350	1875	41
Week 36	8	1	8	992	72	121	14
9/14/89	6	12	40	9500	800	3400	75
Week 37	8	0	0	0	0	0	0
9/20/89	6	3	2	842	0	1106	24
Week 38	8	0	0	0	0	0	0



Table 2. Weekly target species projections for District 106, 1989.

STAT WEEK		ON GROUND	MID-WEEK	FINAL
25	CPUE	70 S/B/D (SS)	40 S/B/D	42 S/B/D
	CATCH	-	6800 S	6222 S
	BOATS	50 (SS)	85	74
26	CPUE	No survey	44 S/B/D	46 S/B/D
	CATCH		7000 S	8727 S
	BOATS		80	95
27	CPUE	No survey	58 S/B/D	61 S/B/D
	CATCH		9300 S	9902 S
	BOATS		80	81
28	CPUE	125 S/B/D (SS)	104 S/B/D	155 S/B/D
	CATCH	-	26500 S	41418 S
	BOATS	50 (SS)	85	89
29	CPUE	130-150 S/B/D	118 S/B/D	128 S/B/D
	CATCH	-	35500 S	40039 S
	BOATS	94	100	104
30	CPUE	90-100 S/B/D	83 S/B/D	90 S/B/D
	CATCH	-	28500 S	34571 S
	BOATS	109	115	127
31	CPUE	70-80 S/B/D	70 S/B/D	76 S/B/D
	CATCH	-	24000 S	28913 S
	BOATS	98	115	126
32	CPUE	500-550 P/B/D	424 P/B/D	488 P/B/D
	CATCH	-	108000 P	127434 P
	BOATS	82	85	87
33	CPUE	600-650 P/B/D	550 P/B/D	583 P/B/D
	CATCH	-	132000 P	159129 P
	BOATS	74	80	91

CPUE is major species catch per boat per day.

S/B/D = Sockeye salmon per boat per day

P/B/D = Pink salmon per boat per day

(SS) = Sumner Straits only

S = Sockeye salmon

P = Pink salmon

Table 3. Weekly target species projections for District 108, 1989.

STAT WEEK		ON GROUND	MID-WEEK	FINAL
25	CPUE CATCH BOATS	5 S/B/D (8B) - 5 (8B)	13 S/B/D 360 S 14	14 S/B/D 399 S 14
26	CPUE CATCH BOATS	No Survey	4 S/B/D 28 S 4	6 S/B/D 48 S 4
27	CPUE CATCH BOATS	Fishery Closed		
28	CPUE CATCH BOATS	No Survey	100 S/B/D 1800 S 6	208 S/B/D 4373 S 7
29	CPUE CATCH BOATS	No Survey	114 S/B/D 2400 S 7	101 S/B/D 3951 S 13
30	CPUE CATCH BOATS	No Survey	50 S/B/D 900 S 6	64 S/B/D 1540 S 8
31	CPUE CATCH BOATS	No Survey	No Estimate	
32	CPUE CATCH BOATS	No Survey	No Estimate	
33	CPUE CATCH BOATS	No Survey	No Estimate	

CPUE is major species catch per boat per day.

S/B/D = Sockeye per boat per day

S = Sockeye Salmon

Table 4. Prince of Wales (District 106) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989.

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
25	222	6222	540	800	892	8,676	74	ACTUAL
	280	6800	485	785	950	9,300	85	ESTIMATE
	58	578	-55	-15	58	625	11	DIFFERENCE
	0.21	0.08	0.11	0.02	0.06	0.07	0.13	% DIFFERENCE
26	227	8727	1138	2967	2866	15925	95	ACTUAL
	500	7000	1000	2400	2200	13100	80	ESTIMATE
	273	-1727	-138	-567	-466	-2825	-15	DIFFERENCE
	0.55	0.25	0.14	0.24	0.21	0.22	0.19	% DIFFERENCE
27	64	9902	1794	14171	3476	29407	81	ACTUAL
	55	9300	1700	12700	3200	26955	80	ESTIMATE
	-9	-602	-94	-1471	-276	-2452	-1	DIFFERENCE
	0.16	0.06	0.06	0.12	0.09	0.09	0.01	% DIFFERENCE
28	148	41418	3360	89712	10735	145373	89	ACTUAL
	60	26500	2400	52000	9200	90160	85	ESTIMATE
	-88	-14918	-960	-37712	-1535	-55213	-4	DIFFERENCE
	1.47	0.56	0.40	0.72	0.17	0.61	0.05	% DIFFERENCE
29	120	40039	5758	122717	8611	177245	104	ACTUAL
	130	35500	4600	107000	6000	153230	100	ESTIMATE
	10	-4539	-1158	-15717	-2611	-24015	-4	DIFFERENCE
	0.08	0.13	0.25	0.15	0.43	0.16	0.04	% DIFFERENCE
30	166	34590	8515	227864	8238	276654	127	ACTUAL
	200	28500	5900	179500	8100	222200	115	ESTIMATE
	34	-6007	-2615	-48364	-138	-54454	-12	DIFFERENCE
	0.17	0.21	0.44	0.27	0.02	0.24	0.10	% DIFFERENCE
31	98	28976	7993	180025	7988	225017	126	ACTUAL
	180	24070	4600	144000	4900	177680	115	ESTIMATE
	82	-4913	-3393	-36025	-3088	-47330	-11	DIFFERENCE
	0.45	0.20	0.74	0.25	0.63	0.27	0.10	% DIFFERENCE
32	39	10147	6462	127488	4674	148756	87	ACTUAL
	50	8500	6100	108000	4400	127050	85	ESTIMATE
	11	-1647	-362	-19488	-274	-21706	-2	DIFFERENCE
	0.22	0.19	0.06	0.18	0.06	0.17	0.02	% DIFFERENCE

Table 4. (Continued)

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
33	91	7523	12707	159583	3895	183372	91	ACTUAL
	40	6200	8500	132000	3000	149740	80	ESTIMATE
	-51 1.27	-323 0.05	-4207 0.49	-27583 0.20	-895 0.30	-33632 0.22	-11 0.14	DIFFERENCE % DIFFERENCE
34	139	3255	14749	116983	5187	140303	123	ACTUAL
	150	2850	13350	107112	4584	128049	125	ESTIMATE
	11 0.07	-405 0.14	-1399 0.10	-9871 0.09	-603 0.13	-12254 0.10	2 0.02	DIFFERENCE % DIFFERENCE
35	159	826	12055	44112	3939	61091	91	ACTUAL
	170	900	12800	47000	4200	65070	100	ESTIMATE
	11 0.06	74 0.08	745 0.06	2888 0.06	261 0.06	3979 0.06	8 0.08	DIFFERENCE % DIFFERENCE
36	12	152	7693	5572	2025	15454	48	ACTUAL
	9	141	6899	5350	1875	14274	41	ESTIMATE
	-3 0.33	-11 0.08	-794 0.11	-222 0.04	-150 0.08	-1180 0.08	-7 0.17	DIFFERENCE % DIFFERENCE
37	25	43	10687	844	3856	15455	76	ACTUAL
	12	40	9500	800	3400	13752	75	ESTIMATE
	-13 1.08	-3 0.07	-1187 0.12	-44 0.05	-456 0.13	-1703 0.12	-1 0.01	DIFFERENCE % DIFFERENCE
38	6	7	1235	6	515	1769	36	ACTUAL
	3	2	842	0	259	1106	24	ESTIMATE
	-3 1.0	-5 2.5	-393 0.47	-6 6.0	-256 0.99	-663 0.6	-12 0.5	DIFFERENCE % DIFFERENCE

Table 5. Stikine (District 108) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989.

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
25	142	399	2	1	55	599	14	ACTUAL
	135	360	4	1	50	550	14	ESTIMATE
	-7	-39	2	0	-5	-49	0	DIFFERENCE
	0.05	0.11	0.5	-	0.1	.09	-	% DIFFERENCE
26	6	48	0	5	39	98	4	ACTUAL
	10	28	4	0	44	86	4	ESTIMATE
	4	-20	4	-5	5	-13	0	DIFFERENCE
	0.4	0.71	1.0	5.0	0.11	0.15	-	% DIFFERENCE
27	FISHERY CLOSED							
28	14	4373	21	2353	1440	8201	7	ACTUAL
	5	1800	25	1200	1000	4030	6	ESTIMATE
	-9	-2573	4	-1153	-440	-4171	-1	DIFFERENCE
	1.8	1.43	0.16	0.96	0.44	1.03	0.17	% DIFFERENCE
29	30	3951	47	7335	548	11911	13	ACTUAL
	15	2400	35	2800	1200	6450	7	ESTIMATE
	-15	-1551	-12	-4535	652	-5461	-6	DIFFERENCE
	1.0	0.65	0.34	1.62	0.54	0.85	0.86	% DIFFERENCE
30	59	1540	63	15224	767	17653	8	ACTUAL
	50	900	30	3000	450	4430	6	ESTIMATE
	-9	-640	-33	-12224	-317	-13223	-2	DIFFERENCE
	0.18	0.71	1.1	4.07	0.7	2.98	.33	% DIFFERENCE
31	NO REPORT WAS GIVEN							
32	NO REPORT WAS GIVEN (ONLY ONE BOAT FISHED)							
33	NO REPORT WAS GIVEN (ONLY ONE BOAT FISHED)							
34	4	27	1090	208	159	1488	6	ACTUAL
	4	23	861	203	138	1229	5	ESTIMATE
	0	-4	-229	-5	-21	-259	-1	DIFFERENCE
	-	0.17	0.27	0.02	0.15	0.21	0.2	% DIFFERENCE
35	48	7	1905	37	109	2106	15	ACTUAL
	59	5	2095	30	115	2304	16	ESTIMATE
	11	-2	190	-7	6	198	1	DIFFERENCE
	0.19	0.4	0.09	0.23	0.05	0.09	0.06	% DIFFERENCE

Table 5. (Continued)

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
36	1	4	801	16	45	867	14	ACTUAL
	1	8	992	72	121	1194	14	ESTIMATE
	0	4	191	56	76	327	0	DIFFERENCE
	-	0.5	0.19	0.78	0.63	0.27	-	% DIFFERENCE
37	CLOSED FOR THE SEASON							

Table 6. Clarence Strait (District 106-30) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989.

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
25	58	1188	114	92	295	1747	20	ACTUAL
	100	1300	125	125	350	2000	25	ESTIMATE
	42	112	11	33	55	253	5	DIFFERENCE
	0.42	0.09	0.09	0.26	0.16	0.13	0.2	% DIFFERENCE
26	77	1774	348	649	316	3164	28	ACTUAL
	100	1500	300	400	200	2500	25	ESTIMATE
	23	-274	-48	-249	-116	-664	-3	DIFFERENCE
	0.23	0.18	0.16	0.62	0.58	0.26	0.12	% DIFFERENCE
27	36	2500	572	4418	346	7872	25	ACTUAL
	30	2200	500	4200	300	7230	25	ESTIMATE
	-6	-300	-72	-218	-46	-642	0	DIFFERENCE
	0.2	0.17	0.14	0.05	0.15	0.09	-	% DIFFERENCE
28	99	17593	1600	39579	2016	60887	37	ACTUAL
	-35	10000	1000	25000	1200	37235	30	ESTIMATE
	64	-7593	-600	-14579	-816	-23652	-7	DIFFERENCE
	1.83	0.76	0.6	0.53	0.68	0.63	0.23	% DIFFERENCE
29	80	19900	2406	72025	4615	99026	43	ACTUAL
	80	16000	2200	80000	2400	100680	40	ESTIMATE
	0	-3900	-206	7975	-2215	1654	-3	DIFFERENCE
	-	0.43	0.09	0.1	0.92	0.02	0.07	% DIFFERENCE
30	124	18752	3051	152448	4061	178436	86	ACTUAL
	160	18000	4000	120000	6000	148160	80	ESTIMATE
	36	-752	949	-32448	1939	-30276	-6	DIFFERENCE
	0.22	0.04	0.24	0.27	0.32	0.2	0.07	% DIFFERENCE
31	77	10974	2775	94672	2934	111432	63	ACTUAL
	150	9000	2100	78000	2100	91350	60	ESTIMATE
	73	-1974	-675	-16672	-834	-20082	-3	DIFFERENCE
	0.49	0.22	0.32	0.21	0.4	0.22	0.05	% DIFFERENCE
32	37	6567	3672	91736	2724	104736	55	ACTUAL
	30	4500	3300	72000	2000	81830	45	ESTIMATE
	-7	-2067	-372	-19736	-724	-22906	-10	DIFFERENCE
	0.23	0.46	0.11	0.27	0.36	0.28	0.22	% DIFFERENCE

Table 6. (Continued)

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
33	96	3096	3055	83863	1390	91500	49	ACTUAL
	30	2700	2300	76000	900	81930	45	ESTIMATE
	-66	-396	-755	-7863	-490	-9570	-4	DIFFERENCE
	2.2	0.15	0.33	0.1	0.54	0.12	0.09	% DIFFERENCE
34	FOR THE REMAINDER OF THE SEASON ESTIMATES WERE MADE FOR THE DISTRICT AND NOT FOR THE SUBAREA.							



Table 7. Summer Strait (District 106-41) drift gill net fishery comparison of estimated catch reported to the Douglas regional office with actual catch, 1989.

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
25	164	5034	426	708	597	6929	54	ACTUAL
	180	5500	360	660	600	7300	60	ESTIMATE
	16	466	-66	-48	3	731	6	DIFFERENCE
	0.09	0.08	0.18	0.07	0.01	0.05	0.1	% DIFFERENCE
26	150	6953	790	2318	2550	12761	67	ACTUAL
	400	5500	700	2000	2000	10600	55	ESTIMATE
	250	-1453	-90	-318	-550	-2161	-15	DIFFERENCE
	0.62	0.26	0.13	0.16	0.27	0.2	0.28	% DIFFERENCE
27	28	7402	1222	9753	3130	21535	56	ACTUAL
	25	7100	1200	8500	2900	19725	55	ESTIMATE
	-3	-302	-22	-1253	-230	-1810	-1	DIFFERENCE
	0.12	0.04	0.02	0.15	0.08	0.09	0.02	% DIFFERENCE
28	49	23825	1760	50133	8719	84486	54	ACTUAL
	25	16500	1400	27000	8000	52925	55	ESTIMATE
	-24	-7325	-360	-23133	-719	-31561	1	DIFFERENCE
	0.96	0.44	0.26	0.87	0.09	0.6	0.02	% DIFFERENCE
29	40	20139	3352	50692	3996	78219	62	ACTUAL
	50	19500	2400	27000	3600	52550	60	ESTIMATE
	10	-639	-952	-23692	-396	-25669	-2	DIFFERENCE
	0.2	0.03	0.4	0.88	0.11	0.49	0.03	% DIFFERENCE
30	42	15819	2764	75416	4177	98218	59	ACTUAL
	40	10500	1900	59500	2100	74040	35	ESTIMATE
	-2	-5319	-864	-15916	-2077	-24178	-24	DIFFERENCE
	0.05	0.51	0.45	0.27	0.99	0.33	0.69	% DIFFERENCE
31	21	17939	5218	85353	5054	113585	64	ACTUAL
	30	15000	2500	66000	2800	86330	55	ESTIMATE
	9	-2939	-2718	-19353	-2254	-27255	-9	DIFFERENCE
	0.3	0.2	1.09	0.29	0.8	0.32	0.16	% DIFFERENCE
32	2	3580	2790	35698	1950	44020	33	ACTUAL
	20	4000	2800	36000	2400	45220	40	ESTIMATE
	18	420	10	302	450	1200	7	DIFFERENCE
	0.9	0.1	0.01	0.01	0.19	0.03	0.17	% DIFFERENCE

Table 7. (Continued)

WEEK	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL	BOATS	
33	22	4427	9652	75266	2505	91872	44	ACTUAL
	10	3500	6200	56000	2100	67810	35	ESTIMATE
	-12	-927	-3452	-19266	-405	-24062	-9	DIFFERENCE
	1.2	0.26	0.56	0.34	0.19	0.35	0.26	% DIFFERENCE
34	FOR THE REMAINDER OF THE SEASON ESTIMATES WERE MADE FOR THE DISTRICT AND NOT BY SUBAREA.							

## APPENDIX

Appendix. In-season vessel interviews.

STAT WEEK 25

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
6/19	1	5	Vank Is.	10:00	1 Sockeye	1 Chum
	2				2 Sockeye	4 King
	3				0	0
	4			10:35	0	0
	1	44	Pt. Baker	12:30	50 Sockeye	
	2				130 Sockeye	
	3				50 Sockeye	3 Chum
	4				18 Sockeye	2 Chum
	5				50 Sockeye	
	6				68 Sockeye	20 Chum
	7				55 Sockeye	
	8				83 Sockeye	9 Chum
	9				110 Sockeye	10 Chum
	10				110 Sockeye	10 Chum
	11				45 Sockeye	
	12			14:30	70 Sockeye	11 Chum
	1	3	Macnamara Pt.	15:00	117 Sockeye	13 King
	2			15:15	30 Sockeye	13 King

This is the first week of the regular drift gill net season. Vessel interviews in District 8 indicated a poor sockeye salmon harvest while Sumner Strait was closer to average at about 70 sockeye/boat/day. For other salmon species the catches look just a bit above average for the first week. Fishermen reported that the pink salmon appear to be larger in size than normal and that the king salmon caught are mostly spawners and not feeders. The king salmon are probably local hatchery fish. Some of the boats interviewed were leaving before the end of the weeks fishing to go trolling.

Appendix. (page 2 of 12.)

STAT WEEK 26

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
------	--------------	--------------	------	------	-------------------	-----------------

No vessel interviews were conducted this week due to a crack in the seam of the skiff that developed while running to the fishery.

STAT WEEK 27

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
------	--------------	--------------	------	------	-------------------	-----------------

7/3 No survey conducted.

## Appendix. (page 3 of 12.)

## STAT WEEK 28

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/9		40	Pt. Baker	15:00	Aerial	
		5	Pt. Colpoys	15:30	Aerial	
		4	Macnamara Pt.	15:40	Aerial	
		5	Salmon Bay	15:50	Aerial	
7/10	1	40	Pt. Baker	09:00	150 Sockeye	150 Pink
	2				100 Sockeye	50 Pink
	3				70 Sockeye	
	4				250 Sockeye	400 Pink
	5				100 Sockeye	150 Pink
	6				130 Sockeye	140 Pink
	7				97 Sockeye	
	8				167 Sockeye	
	9				125 Sockeye	
	10				170 Sockeye	220 Chum
	11				150 Sockeye	300 Pink
	12				140 Sockeye	
	13				166 Sockeye	354 Pink
	14				230 Sockeye	450 Pink
	15			11:45	130 Sockeye	400 Pink
	1	2	Red Bay	12:00	100 Sockeye	
	2			12:05	170 Sockeye	440 Pink
	1	1	Pt. Colpoys	12:30	300 Sockeye	350 Pink
	1	2	Salmon Bay	12:45	240 Sockeye	
	2			12:55	650 Sockeye	
7/11	1	40	Pt. Baker	08:15	270 Sockeye	
	2				260 Sockeye	
	3				150 Sockeye	
	4				280 Sockeye	
	5				350 Sockeye	
	6				300 Sockeye	
	7				250 Sockeye	
	8				150 Sockeye	
	9				330 Sockeye	
	10				200 Sockeye	
	11				300 Sockeye	
	12				220 Sockeye	
	13				200 Sockeye	
	14				200 Sockeye	
	15				322 Sockeye	
	16			09:45	950 Sockeye	

On 7/10 fifteen boats were interviewed in the Point Baker area for 146 sockeye/boat, 265 pinks/boat, 90 chum/boat and 9 coho/boat for the first day of fishing. Surveyed 5 other boats at Point Colpoys, Red Bay and Salmon Bay for 135 sockeye/boat at Red Bay, 300 and 445 sockeye/boat at Point Colpoys and Salmon Bay respectively. The 20 boats had an average sockeye harvest of 183. An early survey conducted on 7/11 indicated a sockeye catch rate of approximately 250 per boat. Sixteen boats were interviewed of which only 15 were used for the average sockeye catch due to an extremely high harvest. The second days catches held and were about 100 sockeye/boat. The average sockeye catch in Sumner Strait for the week was 107/boat/day. Due to the above average sockeye catch and the catch holding up the second day, a 24-hour extension was given on the grounds for both District 6 and 8. Also the in-season Stikine River sockeye model indicated an above average return of mainstream sockeye.

Appendix. (page 4 of 12.)

STAT WEEK 29

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/17	1	52	Pt. Baker	14:30	70 Sockeye	
	2				310 Sockeye	250 Pink
	3				100 Sockeye	200 Pink
	4				250 Sockeye	
	5				300 Sockeye	
	6				120 Sockeye	150 Pink
	7				215 Sockeye	25 Chum
	8				75 Sockeye	50 Pink
	9				50 Sockeye	
	10				100 Sockeye	
	11				70 Sockeye	
	12				235 Sockeye	
	13				250 Sockeye	500 Pink
	14				250 Sockeye	
	15				150 Sockeye	
	16				135 Sockeye	
	17				145 Sockeye	
	18				210 Sockeye	
	19				220 Sockeye	
	20			16:30	145 Sockeye	240 Pink
7/18	1	4	Macnamara	17:00	350 Sockeye	650 Pink
	2				260 Sockeye	
	3				147 Sockeye	
	4			17:25	163 Sockeye	466 Pink
	1	11	Coffman Cove	11:30	318 Sockeye	
	2				600 Sockeye	120 Coho
	3				620 Sockeye	
	4				200 Sockeye	
	5	25	Marsh Is.	11:50	277 Sockeye	850 Pink
	1			12:00	500 Sockeye	1600 Pink
	2				400 Sockeye	3000 Pink
	3				200 Sockeye	2000 Pink
	4				300 Sockeye	
	5				400 Sockeye	2000 Pink
	6				250 Sockeye	
	7				350 Sockeye	1200 Pink
	8				230 Sockeye	
	9				325 Sockeye	
	10				170 Sockeye	
	11				250 Sockeye	1000 Pink
	12				250 Sockeye	
	13				260 Sockeye	2000 Pink
	14			14:00	300 Sockeye	

STAT WEEK 29 (Continued)

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/18	1	2	Bushy Is.	14:30	600 Sockeye	2300 Pink
	2			14:45	275 Sockeye	
7/19	1	1	Sumner Strait	08:00	352 Sockeye	900 Pink

During this weeks vessels surveys, the boats fishing in the Sumner Strait area indicated that the sockeye catches were good but real spotty. Most of the boats had no real estimates on the pink, chum and coho catches, but most of them felt that they were as good as or possibly better than the previous week. In Clarence Strait no boats were seen fishing in Kashevarof Passage and the boats at Luck Point were fishing more in the middle of the straits due to the big tides. At Marsh Island only two boats had accurate pink salmon catches and all the rest were rough estimates. Most of the fishermen did indicated that they felt that the sockeye catches were holding but that the pink salmon catches were increasing each day. Due to heavy fog on 7/19 vessel interviews were not conducted. From talking on the VHF radio we were told that the majority of the fleet had anchored up in Sumner Strait due to the fog.



## STAT WEEK 30

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/24		0	Wrangell 108	14:30		
		0	Macnamara	15:00		
		0	Pt. Colpoys	15:10		
	1	35	Pt. Baker	15:30	100 Sockeye	700 Pink
	2				125 Sockeye	400 Pink
	3				100 Sockeye	500 Pink
	4				200 Sockeye	500 Pink
	5				100 Sockeye	400 Pink
	6				150 Sockeye	600 Pink
	7				170 Sockeye	950 Pink
	8				130 Sockeye	
	9				70 Sockeye	
	10				110 Sockeye	
	11				100 Sockeye	
	12				165 Sockeye	
	13				150 Sockeye	
	14				225 Sockeye	
	15				120 Sockeye	700 Pink
	16				300 Sockeye	62 Coho
	17				130 Sockeye	
	18			18:00	150 Sockeye	600 Pink
7/25	1	2	Kashevarof	10:00	85 Sockeye	600 Pink
	2			10:10	60 Sockeye	700 Pink
	1	22	Luck Pt.	10:30	80 Sockeye	800 Pink
	2				256 Sockeye	1200 Pink
	3				172 Sockeye	1500 Pink
	4				200 Sockeye	900 Pink
	5				175 Sockeye	1452 Pink
	6				150 Sockeye	1100 Pink
	7				192 Sockeye	1135 Pink
	8				170 Sockeye	1400 Pink
	9				185 Sockeye	1600 Pink
	10				300 Sockeye	1900 Pink
	11				420 Sockeye	2000 Pink
	12				315 Sockeye	2113 Pink
	13				207 Sockeye	950 Pink
	14			12:15	220 Sockeye	1600 Pink
	1	44	Marsh Island	12:30	203 Sockeye	2033 Pink
	2				150 Sockeye	1500 Pink
	3				175 Sockeye	1200 Pink
	4				100 Sockeye	1250 Pink
	5				150 Sockeye	1450 Pink
	6				120 Sockeye	1200 Pink
	7				210 Sockeye	1750 Pink
	8				120 Sockeye	1100 Pink
	9				290 Sockeye	1200 Pink

Appendix. (page 7 of 12.)

STAT WEEK 30 (continued)

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
	10				190 Sockeye	1300 Pink
	11				216 Sockeye	1789 Pink
	12				180 Sockeye	1400 Pink
	13				180 Sockeye	900 Pink
	14				150 Sockeye	1700 Pink
	15				200 Sockeye	1600 Pink
	16				250 Sockeye	2030 Pink
	17				375 Sockeye	2000 Pink
	18				300 Sockeye	1500 Pink
	19			15:30	180 Sockeye	700 Pink
		2	Snow Pass	16:00		
		4	Bushy Is.	16:10		
7/26	1	28	Pt. Baker	08:00	200 Sockeye	1000 Pink
	2				500 Sockeye	3000 Pink
	3				300 Sockeye	1700 Pink
	4				400 Sockeye	2000 Pink
	5				300 Sockeye	1500 Pink
	6				371 Sockeye	2500 Pink
	7				303 Sockeye	2500 Pink
	8				320 Sockeye	2000 Pink
	9				300 Sockeye	2000 Pink
	10				295 Sockeye	2000 Pink
	11			10:00	301 Sockeye	2000 Pink

The vessel count on 7/24 in the Point Baker area was lower than what actually started fishing in the area. A total of 35 boats were seen but in talking with the fishermen about 50 to 55 boats started fishing in the area then ran to Clarence Strait. On 7/25 boats that had started fishing in Sumner Strait and ran to Clarence Strait were now running back to Sumner Strait. An accurate boat count and catch by subdistrict was hard to obtain for this week. The sockeye catch dropped off and the big pink salmon catch in Clarence Strait also dropped off this week. The total catch was still good due to the increase in the number of boats from other areas. The boats at Luck Point were taking turns setting.

## STAT WEEK 31

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/30		43	Marsh Is.	13:00		
		46	Pt. Baker	15:30	Aerial	
		6	Macnamara	16:00	Aerial	
		3	Snow Pass	16:15	Aerial	
7/31	1	40	Pt. Baker	16:00	170 Sockeye	1000 Pink
	2				150 Sockeye	700 Pink
	3				130 Sockeye	500 Pink
	4				350 Sockeye	800 Pink
	5				135 Sockeye	1000 Pink
	6				200 Sockeye	500 Pink
	7				160 Sockeye	600 Pink
	8				130 Sockeye	400 Pink
	9				100 Sockeye	500 Pink
	10				75 Sockeye	350 Pink
	11				100 Sockeye	200 Pink
	12				150 Sockeye	400 Pink
	13				100 Sockeye	300 Pink
	14				110 Sockeye	900 Pink
	15				130 Sockeye	500 Pink
	16				150 Sockeye	250 Pink
	17				230 Sockeye	830 Pink
	18			17:30	150 Sockeye	1100 Pink
	1	2	Red Bay	18:00	50 Sockeye	600 Pink
	2			18:10	200 Sockeye	550 Pink
	1	5	Macnamara	18:30	150 Sockeye	600 Pink
	2				105 Sockeye	476 Pink
	3				80 Sockeye	600 Pink
	4			19:00	187 Sockeye	600 Pink
8/1	1	3		12:30	25 Sockeye	400 Pink
	2				325 Sockeye	1100 Pink
	3			12:40	300 Sockeye	1700 Pink
	1	36	Marsh Is.	13:00	50 Sockeye	1600 Pink
	2				100 Sockeye	1000 Pink
	3				100 Sockeye	1000 Pink
	4				80 Sockeye	700 Pink
	5				140 Sockeye	1100 Pink
	6				75 Sockeye	800 Pink
	7				130 Sockeye	400 Pink
	8				175 Sockeye	1500 Pink
	9				80 Sockeye	900 Pink
	10				90 Sockeye	800 Pink
	11				185 Sockeye	1100 Pink
	12				165 Sockeye	1200 Pink
	13				160 Sockeye	1300 Pink
	14				80 Sockeye	1200 Pink
	15			14:30	243 Sockeye	2700 Pink

Appendix. (page 9 of 12.)

STAT WEEK 31 (continued)

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/2	1	5	Luck Pt.	14:35	50 Sockeye	500 Pink
	2				144 Sockeye	1350 Pink
	3				170 Sockeye	1100 Pink
	4			15:05	90 Sockeye	700 Pink
	1	3	Kashevarof	15:15	176 Sockeye	1000 Pink
	1	1	Pt. Colpoys	07:30	340 Sockeye	1300 Pink
	1		Pt. Baker	08:00	170 Sockeye	750 Pink
	2				300 Sockeye	1500 Pink
	3				450 Sockeye	1600 Pink
	4				270 Sockeye	1500 Pink
	5				250 Sockeye	850 Pink
	6				350 Sockeye	1800 Pink
	7				300 Sockeye	1100 Pink
	8				200 Sockeye	1000 Pink
	9				300 Sockeye	800 Pink
	10				400 Sockeye	1900 Pink
	11				200 Sockeye	500 Pink
	12				150 Sockeye	500 Pink
	13				200 Sockeye	800 Pink
	14				380 Sockeye	2000 Pink
	15				300 Sockeye	1000 Pink
	16			09:30	420 Sockeye	2000 Pink

The catches of all salmon species appear to be down from last week in both Sumner and Clarence Strait. Some of the boats that started fishing in Clarence Strait have left for Tree Point. Most of the boats interviewed in the Clarence Strait area felt that the catches were dropping off with each set and that Sunday was mainly just a mop-up fishery. In contrast, the catches in Sumner Strait were down from the previous week but seemed to be improving. Most of these boats fished right up to the noon closure. No vessel estimate was made on 8/2 due to the heavy fog in Sumner Strait.

## STAT WEEK 32

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/6		6	Macnamara	16:00		
		4	Colpoys	16:10		
	1	33	Pt. Baker	19:00	70 Pink	20 Sockeye
	2				400 Pink	20 Sockeye
	3				60 Pink	12 Sockeye
	4				210 Pink	30 Sockeye
	5				120 Pink	20 Sockeye
	6				200 Pink	6 Sockeye
	7				130 Pink	15 Sockeye
	8				30 Pink	18 Sockeye
	9				150 Pink	18 Sockeye
	10			19:45	300 Pink	25 Sockeye
	1	5	Pt. Colpoys	20:00	50 Pink	15 Sockeye
	2				300 Pink	30 Sockeye
	3			20:15	160 Pink	19 Sockeye
8/7	1	4	Snow Pass	11:00	700 Pink	60 Sockeye
	2				210 Pink	59 Sockeye
	3				1700 Pink	100 Sockeye
	4			11:40	1600 Pink	150 Sockeye
	1	18	Marsh Is.	12:00	1100 Pink	
	2				1200 Pink	55 Sockeye
	3				800 Pink	50 Sockeye
	4				600 Pink	
	5				300 Pink	20 Sockeye
	6				950 Pink	
	7			12:50	1100 Pink	50 Sockeye
	1	11	Luck Pt.	13:05	650 Pink	84 Sockeye
	2				1000 Pink	150 Sockeye
	3				850 Pink	67 Sockeye
	4				850 Pink	80 Sockeye
	5				700 Pink	45 Sockeye
	6			13:25	1000 Pink	65 Sockeye
	1	6	Kashevarof	13:35	1100 Pink	50 Sockeye
	2				1300 Pink	75 Sockeye
	3				500 Pink	
	4				230 Pink	60 Sockeye
	5			14:00	420 Pink	38 Sockeye
8/8	1	25	Pt. Baker	16:00	1500 Pink	110 Coho
	2				400 Pink	
	3				230 Pink	45 Coho
	4				1000 Pink	55 Coho
	5				750 Pink	40 Coho
	6				630 Pink	150 Coho
	7				540 Pink	49 Coho

Appendix. (page 11 of 12.)

STAT WEEK 32 (continued)

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
	8				810 Pink	70 Coho
	9				1500 Pink	83 Coho
	10				1000 Pink	65 Coho
	11				1400 Pink	100 Coho
	12			17:35	1300 Pink	60 Coho
	1	1	Macnamara Pt.	18:00	1600 Pink	100 Coho
		1	Pt. Colpoys			
8/9	1	5	Snow Pass	07:30	5000 Pink	150 Coho
	2				2500 Pink	25 Coho
	3			08:45	1500 Pink	120 Sockeye
	1	7	Marsh Is.	09:15	3200 Pink	110 Sockeye
	2				1900 Pink	30 Coho
	3				1800 Pink	125 Sockeye
	4			10:30	1500 Pink	100 Coho
	1	6	Luck Pt.	10:45	2000 Pink	80 Coho
	2				1700 Pink	
	3				1800 Pink	75 Coho
	4			11:10	900 Pink	
	1	4	Kashevarof	11:20	2500 Pink	100 Coho
	2				1000 Pink	100 Coho
	3			11:40	3400 Pink	67 Coho

Started monitoring the fishery on Sunday evening this week due to the two day fishing week. Some of the boats were starting to leave District 106 and headed for Taku because of the Monday opening in District 111. During the 8/7 interviews the weather was poor and the boat count could be off due to vessels anchoring and poor visibility. Pink salmon catches were above average for this week and District 6 was open to purse seining later in the week so a 24- hour extension was given on the fishing grounds. Most of the vessel fishing were disappointed in their catches due to the extremely high catches last week and the big drop in money fish. Many of the boats quit fishing early in the week which made the final CPUE lower than it actually was. For the boats that stayed to the end, the pink catches in Clarence Strait were picking up and getting even better right up to the closure. These boats averaged 2250 pink/boat for the week.

## STAT WEEK 33

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/14	1	22	Luck Pt.	16:00	1650 Pink	40 Coho
	2				700 Pink	30 Coho
	3				1300 Pink	25 Coho
	4				700 Pink	16 Coho
	5				373 Pink	57 Coho
	6				1000 Pink	32 Coho
	7				200 Pink	6 Coho
	8				100 Pink	
	9			17:15	1000 Pink	
	1	14	Marsh Is.	17:30	945 Pink	15 Coho
	2				1050 Pink	15 Coho
	3				1000 Pink	31 Sockeye
	4				1000 Pink	25 Coho
	5				700 Pink	
	6				1500 Pink	25 Coho
	7				800 Pink	30 Coho
	8			18:50	400 Pink	
	1	3	Snow Pass	19:00	400 Pink	20 Coho
	2				1600 Pink	28 Coho
	3			19:20	1000 Pink	40 Coho
8/15	1	15*	Pt. Baker	09:20	1600 Pink	65 Coho
	2				1600 Pink	140 Coho
	3				1300 Pink	160 Coho
	4				1100 Pink	150 Coho
	5				1000 Pink	150 Coho
	6				800 Pink	130 Pink
	7				2100 Pink	200 Coho
	8				1300 Pink	130 Coho
	9				1500 Pink	120 Coho
	10			11:00	600 Pink	100 Coho

Pink salmon catches were about twice the weekly average and the escapements were good throughout most of District 106 so a 24-hour extension was given on the fishing grounds. Most of the fleet felt that the pink salmon catches were improving during the week and that the quality of the fish was better than the previous weeks. Due to budget cuts this will be the last week that the fishery will be monitored on the fishing grounds. The R.V. Steller towed the float house back to Wrangell on 8/15.

\* Low count due to fog, boats fishing the area estimated 30 to 35 boats.

The Alaska Department of Fish and Game (ADF&G) administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act (ADA) of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972.

**If you believe you have been discriminated against in any program, activity, or facility please write:**

ADF&G ADA Coordinator, P.O. Box 115526, Juneau AK 99811-5526

U.S. Fish and Wildlife Service, 4040 N. Fairfax Drive, Suite 300 Webb, Arlington VA 22203

Office of Equal Opportunity, U.S. Department of the Interior, Washington DC 20240

**The department's ADA Coordinator can be reached via phone at the following numbers:**

(VOICE) 907-465-6077, (Statewide Telecommunication Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078

**For information on alternative formats and questions on this publication, please contact:**

ADF&G, Division of Commercial Fisheries, P.O. Box 115526, Juneau AK 99811-5526 (907)465-4210.